

Serial No. 10/029,447

PATENT
ART UNIT 2872
Serial No: 10/029,447

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: HAZZARD, Thomas B.)
Serial No: 10/029,447)
Filed: December 14, 2001)
Title: HOLOGRAPHIC PRIVACY SCREEN FOR PDA)
Docket No: T001 P00504-US1)
Examiner: JUBA Jr., John)
Art Unit: 2872)

DECLARATION UNDER 37 C.F.R. 132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Thomas B. Hazzard, declare that the evidence as follows in this declaration comes from my Company Records and my own personal knowledge, and I am duly authorized to speak on behalf of my Company in this matter, and hereby declare as follows:

1. I am the Vice President of ttools, LLC of PO Box 7, Jamestown, NY 14702, USA (formerly of 686 Angell Street, Providence, RI 02906, USA). I am also the inventor of the holographic privacy screen described in US Patent Application No. 10/029,447

Serial No. 10/029,447

filed on 14th December 2001 and Provisional Application 60/255,554 filed on 14th December 2000.

2. US Patent Application No. 10/029,447 was filed on 14th December 2001 in the name of Thomas B. Hazzard and claimed priority of US Provisional Application 60/255,554 filed on 14th December 2000, also in the name Thomas B. Hazzard. On the 17th December 2001, Thomas B. Hazzard assigned his interest in both the US Provisional Application and the US Patent Application to tools, LLC.

3. The development of the holographic privacy screen that is the subject of the present application for patent began on 15th June 2000. Exhibit 1 is a copy of a page from my inventor's notebook bearing that date and describing the concept of a printed holographic film material for protecting the privacy of information on a PDA screen.

4. Further research regarding the best method and technique for applying the holographic imagery to a film overlay is documented on a copy of a page from my inventor's notebook bearing the date 5th July 2000. Exhibit 2 is a copy of this page detailing the inventive concept whereby the holographic image is shot onto the master film from two oblique angles for optimal image viewing (and PDA screen privacy) from the sides of the film.

5. I made contact with several holographic printers regarding the development of a prototype on or before 10th July 2000. Exhibit 3 shows a page from my inventor's notebook bearing the date 10th July 2000 documenting my discussions with the potential printers.

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6. Instructions for printing a set of prototype holographic privacy screens were transmitted to Laser ExPress Holography via email on 19th October 2000. Exhibit 4 is a copy of this email including detailed parameters for printing and the images used for the holographic prototype.

7. All of the above information was forwarded to our Patent Attorneys, Barlow, Josephs & Holmes, Ltd. on or before 24th October 2000.

8. That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements may jeopardize the validity of this application or any patent resulting therefrom.


Thomas B. Hazzard

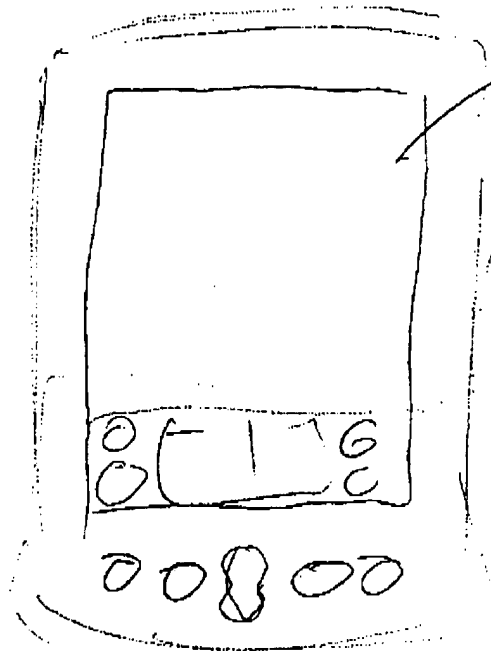
9.18.2003
Dated

Serial No. 10/029,447

PATENT
ART UNIT 2872
Serial No: 10/029,447

EXHIBIT 1

6.15.00



PRIVACY SCREEN - FOLLOWS

POSSIBILITIES:

3M-LIGHT CONTROL FILM
 BLOWN FILMS
 POLARIZING FILTERS?
 HOLOGRAPHY?
 DOT PATTERN PRINT
 CONSTRUCTION -
 THIN FIBERS/FILAMENTS
 - ALTH.

NEEDS CLEAR FILM

THIN + FLEXIBLE - GRAFT

PSA -

LESS EXPENSIVE THAN 3M -
COMISPY.

VBA.

PROVIDE PRIVACY FROM
NEIGHBORS.

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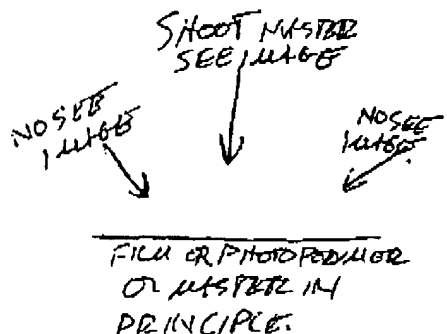
EXHIBIT 2

7.5.00

PRIVATE SCREEN -

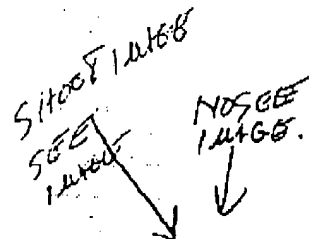
BLUR FILMS WON'T WORK - EITHER WILL DOT PATTERNS PRINTED - 3M IS TOO EXPENSIVE.

HOLOGRAPHY - RESEARCH SHOWS THEY CAN EASILY BE REPRODUCED INEXPENSIVELY.



USUALLY THE "MASTER" IS SHOT PERPENDICULAR TO IMAGE PLANE. YOU THEN SEE THE IMAGE FROM THE FRONT AND SOME OTHER ANGLES. THERE IS ALWAYS AN ANGLE WHERE YOU CAN NOT SEE THE IMAGE.

* CONCEPT - IF THE MASTER HAD THE IMAGE SHOT FROM ANOTHER ANGLE WHAT WOULD THE RESULT BE? PERHAPS YOU WOULD SEE THE IMAGE FROM THE SIDE AND NOT THE FRONT?



FILM OR MASTER

SEE HOLOGRAPHIC IMAGE
CLEAR VIEW

PERHAPS WE CAN SHOOT A MASTER FROM BOTH SIDES OR COMBINE TWO FILMS TO CREATE AN EFFECTIVE PRIVATE SCREEN

SEE HOLOGRAPHIC IMAGE
EDGE OF SCREEN

NO PEERING FROM NEIGHBORS.

TRH

Serial No. 10/029,447

PATENT
ART UNIT 2872
Serial No: 10/029,447

EXHIBIT 3

7.10.00 -

Holographs -

ALL I TALKED TO DON'T THINK IT WILL WORK,
BUT THEY WON'T TRY IT EITHER.

I NEED TO FIND ONE WILLING TO TRY TO SHOOT
A MODEL (1-1000) 'OFF ANGLE.' THEY WON'T DO
IT ON SPEC - WE WILL HAVE TO TRY AND BE
WILLING TO PAY FOR THE R+D.

Serial No. 10/029,447

PATENT
ART UNIT 2872
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EXHIBIT 4

Subject: Product specs**Date:** Thu, 19 Oct 2000 15:38:02 -0500**From:** Tom Hazzard <tom@ttools.com>**Organization:** ttools, LLC**To:** "Tim Knapp (Laser ExPress)" <timk@holograms.cc>**References:** 1

Tim:

Thank you for your recent email, it is indeed good news. Please proceed with a prototype made from an existing hologram shooting it "Off Angle" so the image shows up from the sides instead of the typical straight on view (perpendicular to the surface). I have attached a drawing with specifications for the angles. I have also attached two other drawings (they are all Jpegs so you should be able to view and print them easily) with other specifications. The dimensions of the film and hologram area need to be maintained as closely as possible. The angles in all cases are a target, it will work if you can not achieve these exact angles. Please do your best using my angles as a guideline. Below I will explain each image attached and detail the specifications:

1. Image PS1.jpg

This image is a drawing of the angles of obstructed view and the angles of clear view we desire. This drawing should be self explanatory. The 30 degrees of view where the view is obstructed can be increased toward the plane of the screen, but below 30 degrees you will not be able to see the screen anyway.

2. Image PS2.jpg

This image shows some alternate angles that at first may seem confusing. I am trying to illustrate that it is ideal for an onlooker to the screen to see the holographic image from the side if their line of sight is within the 105 degree (forward to back) area to either side of the screen. If this is not achievable lets discuss it and come up with the best solution possible. Obviously the view of the hologram would depend on the viewer's position relative to the angles in the first drawing which are more critical.

3. Image PS3.jpg

This drawing gives the over all dimensions of the plastic film, and the image area of the hologram. There is no need to cover the bottom 3/4" with the hologram as the display is only the top 2.2" from the top. The film however must cover the entire screen as it will serve as a protector from scratches as well as a privacy device. It is OK for the film to be square at the bottom, not curved like the Palm V screen, the two bottom corners can slide under the metal frame.

4. Padlock.jpg

This image is to illustrate a concept for the image to be seen from the side. DO NOT USE THIS IMAGE FOR COLOR. You will notice the obvious connotation of security and that the viewer is not allowed in. We are thinking there could be another chain crossing this one, attached to the same padlock making a visual X across the whole screen. We need your advice here as to whether or not the onlooker would be able to see too much of the screen around the X of chains? We had originally envisioned a very textural image, more like the chainlink image (described below).

5. Blue Chain.jpg

This image is similar to the Padlock but it has more of the color we desire. We want as much of a techie blue color as possible.

6. Chainlink.jpg

This image is more of a textural image to block the view of the entire

Thursday, October 19, 2000

JPEG image 278x183 pixels

Page: 2

screen. We would want to use chains like in the other images, and the color of the Blue chain image. This is just for discussion purposes.

Other specs:

7. We want to try the static cling method of mounting this product to the screen. We will need to test this to see how long it lasts, and if it will shift during use, etc. What data do you have on it?

8. We should also try a PSA as a backup. The PSA on the samples is a little aggressive for our purpose. Can you use a different one that can be removed more easily?

Action items:

1. Please proceed with a prototype per your last email. Take my image suggestions into consideration and use the most appropriate master you have. Don't worry about it too much, the important thing here is to prove the concept will work.

2. Please quote the production product mastering cost, individual piece cost, lead time for masters, first production samples, production runs, and anything else you can think of.

3. Please quote in quantities of 50,000, 100,000, 150,000, 200,000 and 250,000 piece runs. As I indicated to you we will buy in large quantities, but I need smaller quotes if we need to order more to meet our needs if we under estimate demand, etc.

Thank you very much for your help. I look forward to seeing a prototype. Please let me know that you have received this.

Best regards,

Tom Hazzard
ttools, LLC.

"Tim Knapp (Laser ExPress)" wrote:

> Tom:

>

> Good news (and more good news) ... First of all, we CAN have a prototype made from an existing master hologram with the "experimental angles." Also, we can do the master and "proof" for \$1800.00 net.

>

> I assume for your final image you do not need anything extravagant like "flashing," multiple channels, or complex objects, correct? Probably mostly simply 3D type copy and/or some basic images. Please let me know for sure on this as this will help to determine which master image is used to create the prototype. I of course realize that what is most important to you is whether the principle actually works.

>

> Of course feel free to call or email me back if you have any questions. I am really looking forward to working with you on this project and am confident we can create a unique and high-quality product together.

>

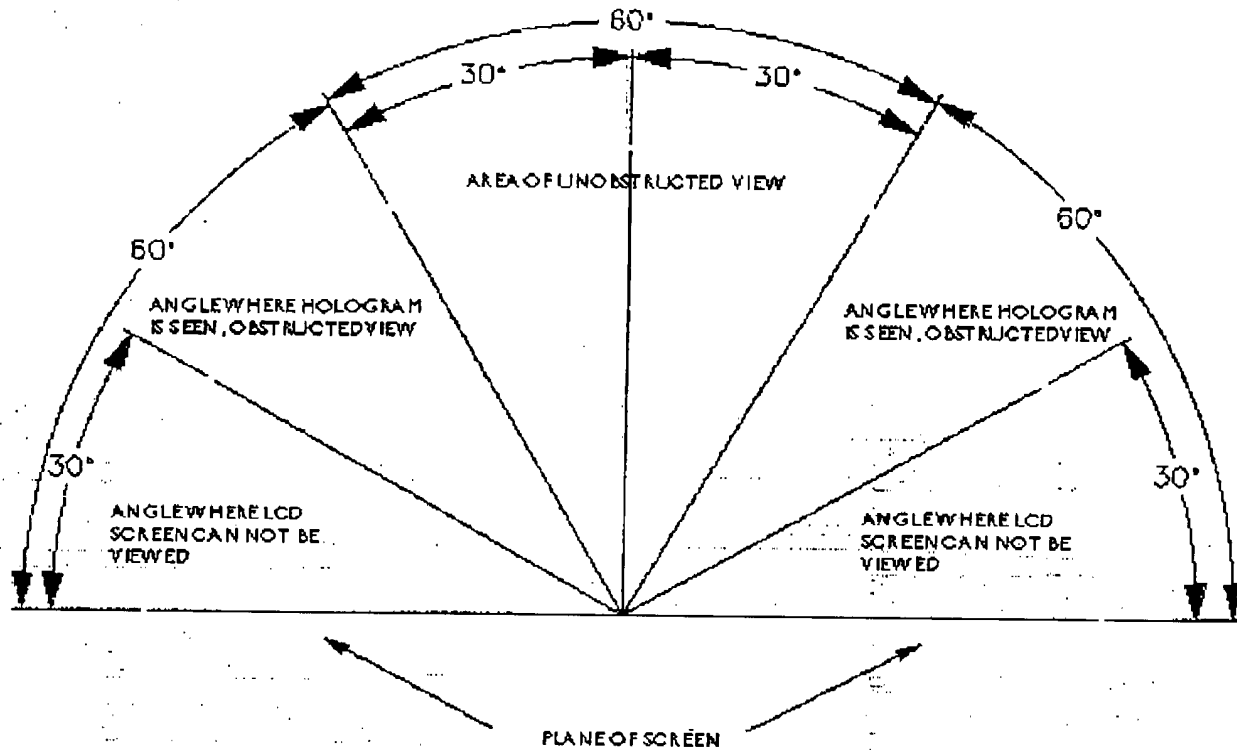
> Regards,

> Tim Knapp

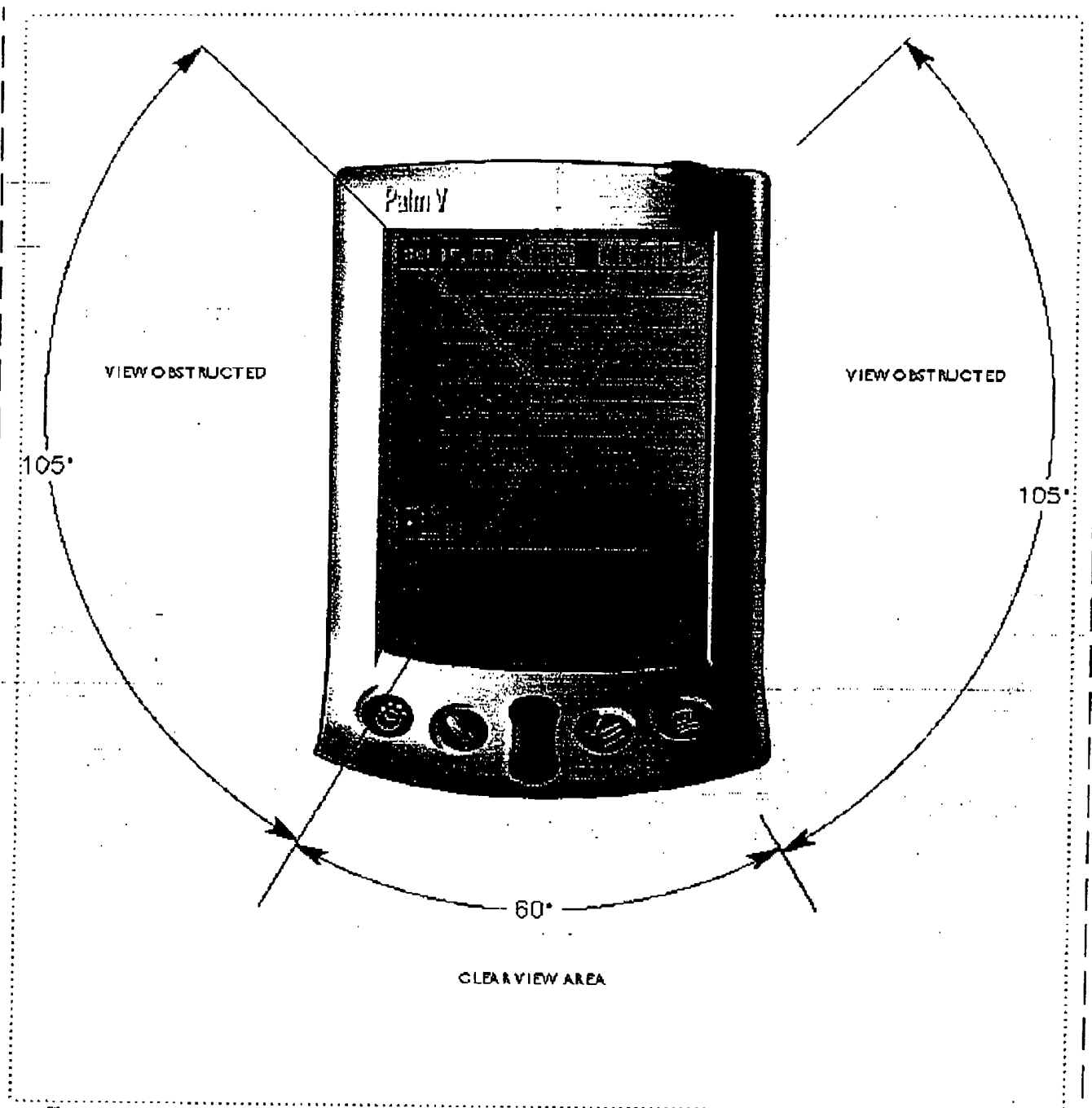
> Laser ExPress Holography

> 410-515-7350

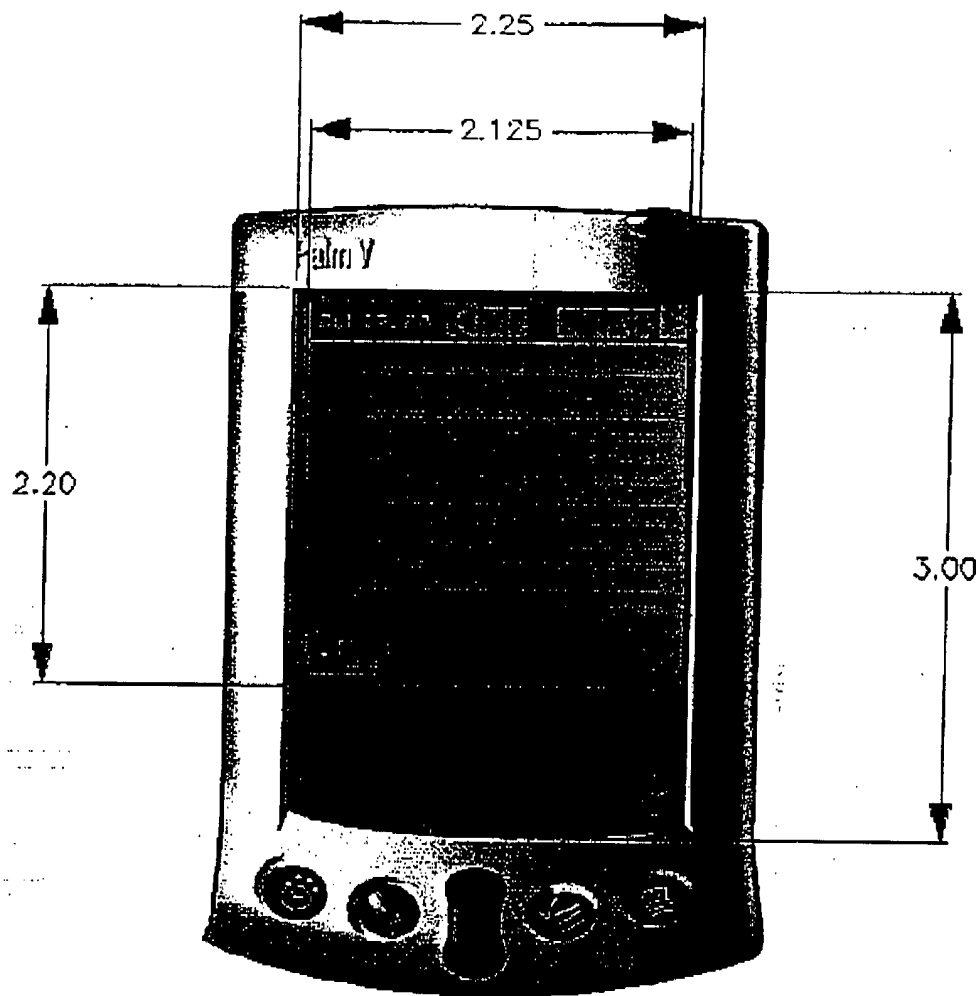
> timk@holograms.cc



ttools, LLC TOLERANCES: .XX = .XXX = ANGULAR DO NOT SCALE DWG	DRAWN TBM	DATE 9-14-00	TITLE PRIVACY SCREEN ACTIVE ANGLES		
	DIMENSIONS ARE IN: inch				
	SCALE 1:2	DRAWING NUMBER TT-EX-PS.1	REV 1	SH 1/3	
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401-831-3831 fax 401-454-0183					

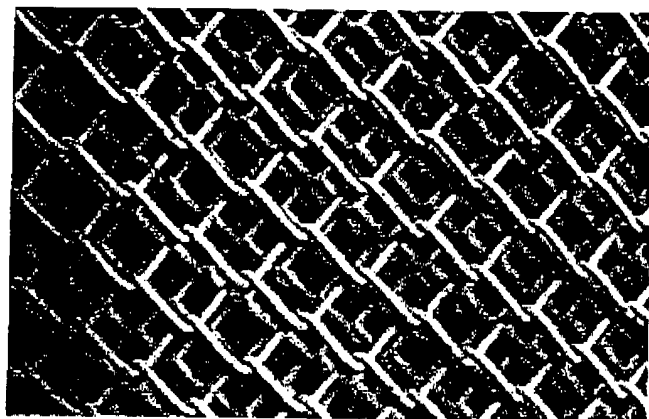
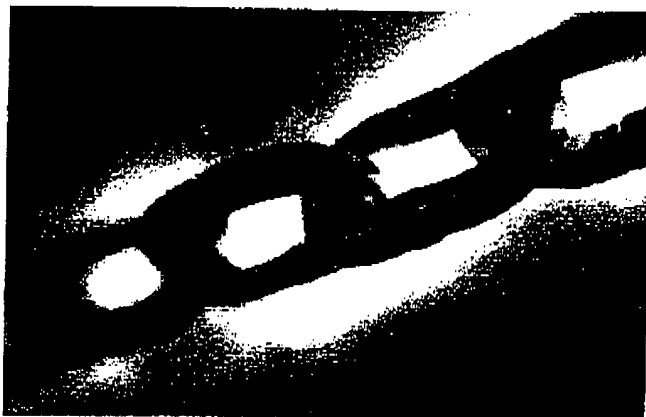
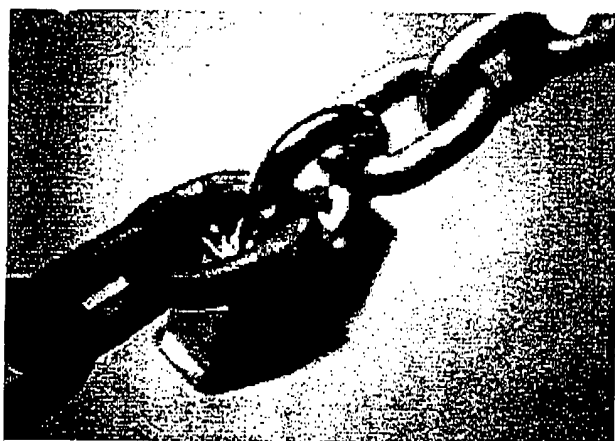


ttools, LLC TOLERANCES: XX = XXX = ANGULAR DO NOT SCALE DWG.	DRAWN TBH	DATE 9-14-00	TITLE ALTERNATE ANGLES OF VIEW		
	DIMENSIONS ARE IN: INCH				
	SCALE 1:1	DRAWING NUMBER TT-EX-PS.1	REV 1	SH 2/3	
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401-831-3831 fax 401-454-0183					



NOTES:
1) FILM SIZE IS 2.25" X 3;
2) HOLOGRAM AREA IS 2.125" X 2.2"
CENTERED RIGHT TO LEFT AND
JUSTIFIED TO THE TOP OF THE 3"
LENGTH

ttools, LLC	DRAWN	DATE	TITLE		
	TBH	9-14-00	IMAGE AREA		
	DIMENSIONS ARE IN:				
TOLERANCES: .XX = .XXX = ANGULAR DO NOT SCALE DWG.	INCH				
	SCALE	1:1	DRAWING NUMBER	REV	SH
			TT-EX-PS.1	1	3/3
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401-831-3831 fax 401-454-0183					



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PATENT
ART UNIT 2872
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: HAZZARD, Thomas B.)
Serial No: 10/029,447)
Filed: December 14, 2001)
Title: HOLOGRAPHIC PRIVACY SCREEN FOR PDA)
Docket No: T001 P00504-US1)
Examiner: JUBA Jr., John)
Art Unit: 2872)

DECLARATION UNDER 37 C.F.R. 132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Stephen J. Holmes, Esq., declare that the evidence as follows in this declaration comes from my Firm's Records and my own personal knowledge, and I am duly authorized to speak on behalf of my Firm in this matter, and hereby declare as follows:

1. I am a Registered US Patent Attorney, Registration No. 34,621 and I am a principal of Barlow, Josephs & Holmes, Ltd. of 101 Dyer Street, 5th Floor, Providence, RI 02903, USA. I am also the attorney responsible for preparation of US Provisional

Serial No. 10/029,447

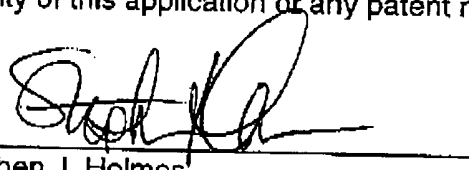
Application No. 60/255,554, filed 14th December 2000 and US Patent Application No. 10/029,447, filed on 14th December 2001, which claimed the priority of the above noted Provisional Application.

2. On or before the 24th October 2000, I received a copy enclosed as Exhibit 1, of documentation regarding the research, development and reduction to practice of a holographic privacy screen from Thomas B. Hazzard of ttools, LLC of PO Box 7, Jamestown, NY 14702, USA (formerly of 686 Angell Street, Providence, RI 02906, USA).

3. I used this documentation to prepare a letter dated 24th October 2000 to our search agent requesting that he perform a patentability search. A copy of this letter is enclosed as Exhibit 2.

4. I also used this documentation and the results of the patentability search to prepare US Provisional Application No. 60/255,554, filed 14th December 2000 and subsequently US Patent Application No. 10/029,447, filed on 14th December 2001.

5. That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements may jeopardize the validity of this application or any patent resulting therefrom.


Stephen J. Holmes
Reg. No. 34,621


Dated:

Serial No. 10/029,447

PATENT
ART UNIT 2872
Serial No: 10/029,447

EXHIBIT 1

ttools, LLC

Steve Holmes
Barlow, Josephs & Holmes, LTD.
101 Dyer Street, 5th Floor
Providence, RI 02903

October 19, 2000

Steve:

Enclosed please find documents and information we discussed on the phone related to the holographic privacy screen invention. Included are:

1. Notes from my sketchbook regarding a privacy screen solution.
2. Sample ordinary holograms.
3. Specifications emailed to the vendor I found who was willing to experiment per my instructions, and proved my theory was correct.

The vendor is currently producing prototypes based on the email enclosed. They should be ready in a week or two at the latest, but we have already proven the theory. I have a sample I can come in and show you if you like but it is the only one I have right now. We will get many prototypes so I will get you all you need at that time.

Details on Holographic Privacy Screen: (Specifications attached, item 3)


The invention is a thin flexible plastic film with a holographic image designed to be seen from only certain angles of view. The purpose of the invention is to serve as an overlay on a LCD screen of a handheld computer (PDA), laptop computer, or computer monitor. It allows the user to view the screen unobstructed from normal viewing angles. The holographic image is seen from peripheral angles of view, obstructing the display of the screen for others. The holographic technology reflects and refracts light to create a 3 dimensional image. All holograms to date are made at standard angles, as their intended view is perpendicular to the image plane, or straight-ahead. The Privacy screen holographic image is unique in that the image is created and shot "Off Angle," or at specific non-standard angles. The result is that the image is seen only from peripheral angles. This serves the intended purpose of providing privacy for the information the PDA user is accessing on the screen. The privacy screen needs to be flexible to allow the screen to sense stylus contact. The privacy screen also serves to protect the screen from scratches.

Prior art:

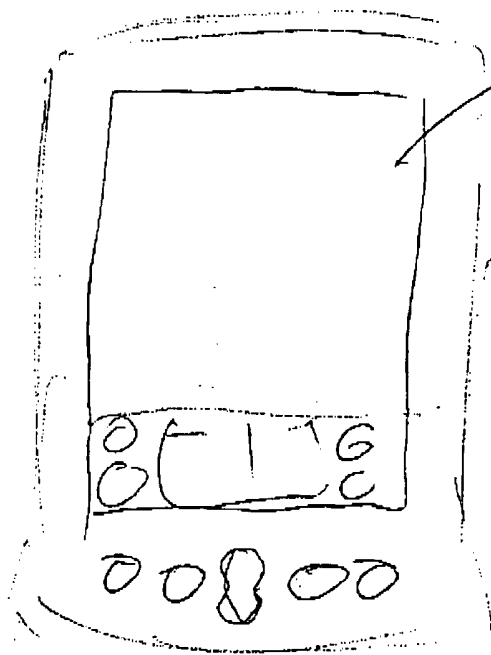
The only patents I found remotely related to a privacy screen are for Light Control Film and a Louvered Echelon Lens. The patent numbers are 3,972,593 4,082,433 and 5,254,388.

Please proceed with the search we discussed on the phone and prepare a patent application. If you have any questions in the next week please email me or call 935-5983 as I will be out of the office most of that time.

Thank you,


Tom Mazzard
Vice President

6.15.00



PRIVACY SCREENS - FELLOWS

POSSIBILITIES!

3M-LIGHT COATRE FILM
 BCCORR FILMS
 POLARIZING FILTERS?
 HOLOGRAPHY?
 DOT PATTERN PRINT
 CONSTRUCTION -
 THIN FIBRES/FILAMENTS
 - MESH.

NEEDS CLEAR FILM

THIN + FLEXIBLE - GRITIT.

PSA -

LESS EXPENSIVE THAN 3MOT
 COMISPY.

JBH.

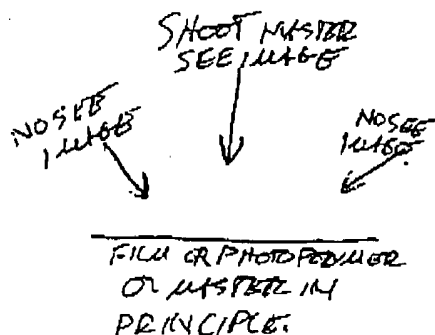
PROVIDE PRIVACY FROM
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7.5.00

PRIVATE SCREEN -

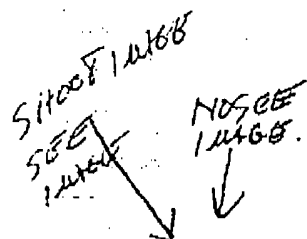
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CONCEPT - IF THE MASTER HAD THE IMAGE SHOT FROM ANOTHER ANGLE WHAT WOULD THE RESULT BE? PERHAPS YOU WOULD SEE THE IMAGE FROM THE SIDE AND NOT THE FRONT?



FILM OR MASTER

SEE HOLOGRAPHIC IMAGE

CENTRAL VIEW

EDGE OF SCREEN

PERHAPS WE CAN SHOOT A MASTER FROM BOTH SIDES OR COMBINE TWO FILMS TO CREATE AN EFFECTIVE PRIVATE SCREEN

SEE HOLOGRAPHIC IMAGE

NO PEERING FROM NEIGHBORS.

TBA

7.10.00 -

HOLDBREATHERS -

ALL I TALKED TO DON'T THINK IT WILL WORK,
BUT THEY WON'T TRY IT EITHER.

I NEED TO FIND ONE WILLING TO TRY TO SHOOT
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IT ON SPEC - WE WILL HAVE TO TRY AND BE
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Subject: Product specs

Date: Thu, 19 Oct 2000 15:38:02 -0500

From: Tom Hazzard <tom@ttools.com>

Organization: ttools, LLC

To: "Tim Knapp (Laser ExPress)" <tink@holograms.cc>

References: 1



Tim:

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JPEG image 278x183 pixels

Page: 1

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Best regards,

Tom Hazzard
ttools, LLC.

"Tim Knapp (Laser ExPress)" wrote:

> Tom:

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> Good news (and more good news) ... First of all, we CAN have a prototype made from an existing master hologram with the "experimental angles." Also, we can do the master and "proof" for \$1800.00 net.

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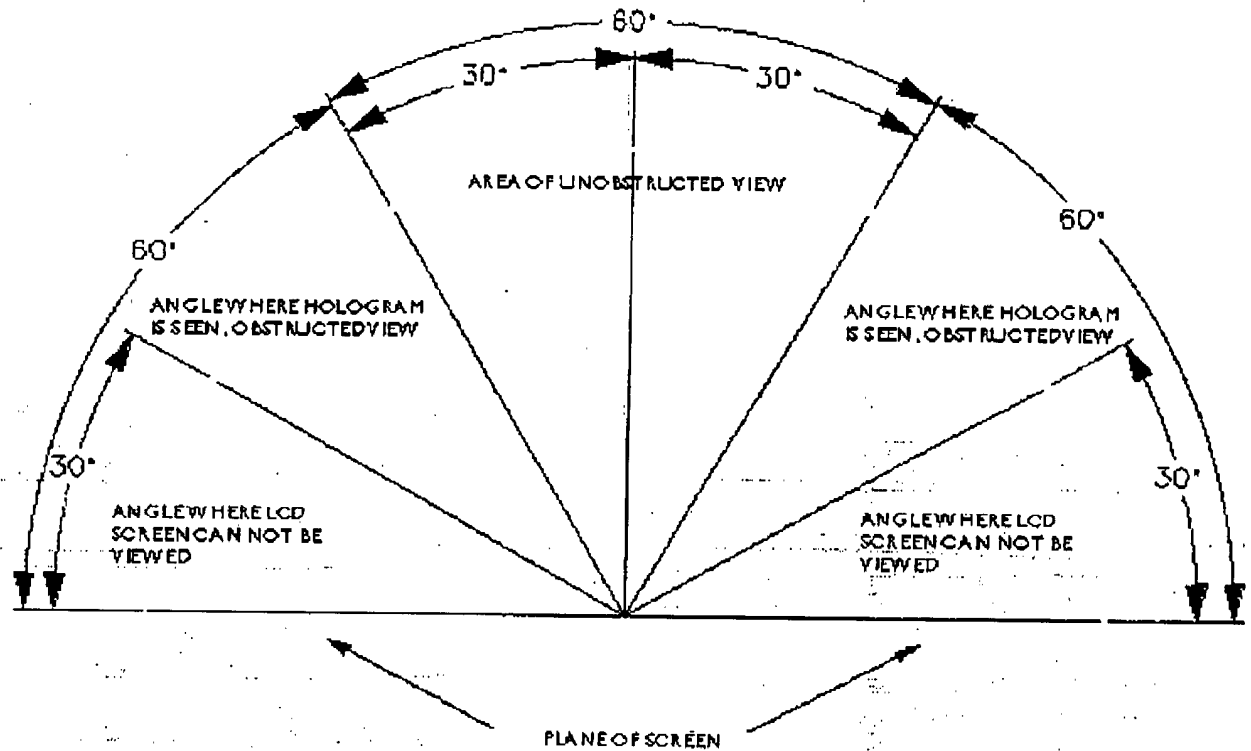
> Regards,

> Tim Knapp

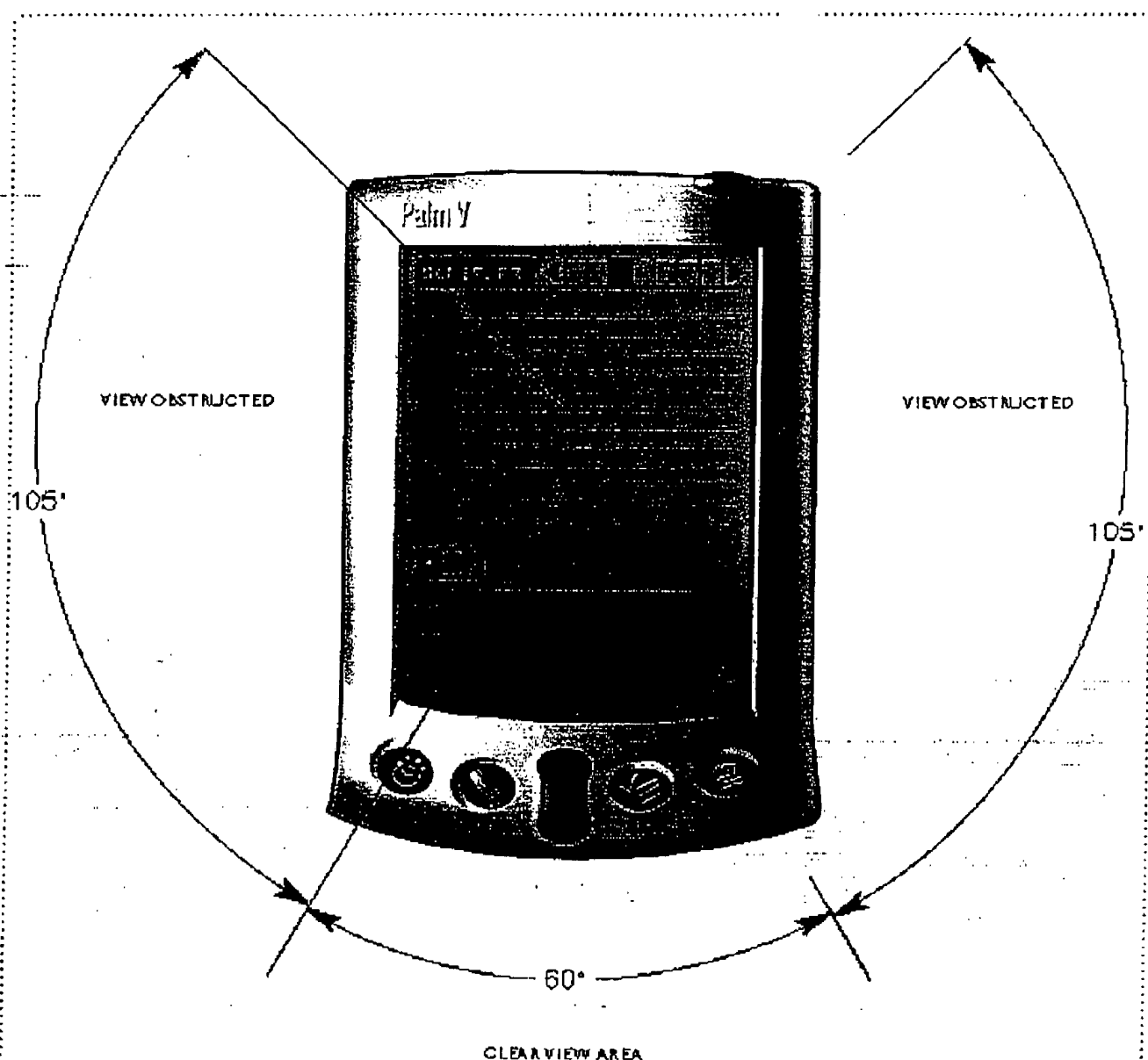
> Laser ExPress Holography

> 410-515-7350

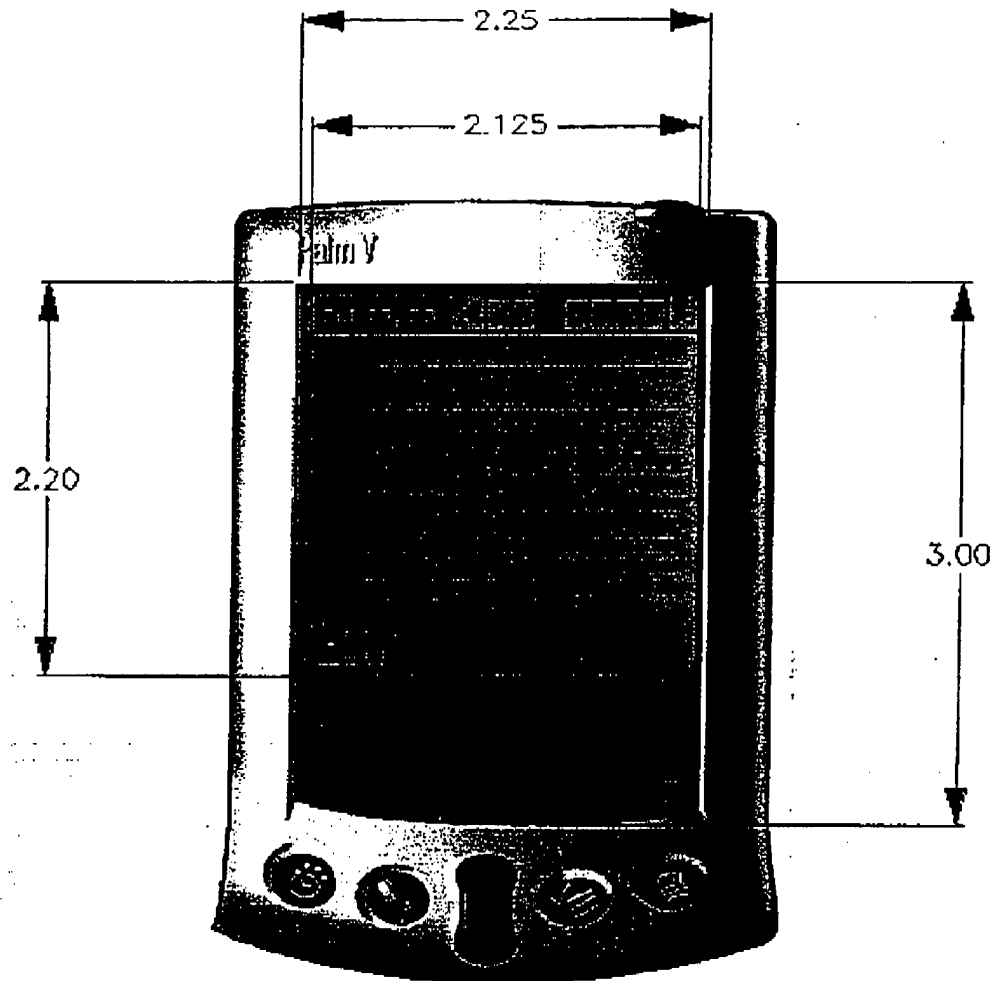
> timk@holograms.cc



ttools, LLC	DRAWN TBH	DATE 9.14.00	TITLE PRIVACY SCREEN ACTIVE ANGLES		
	DIMENSIONS ARE IN: inch				
	SCALE 1:2	DRAWING NUMBER TT-EX-PS.1	REV 1	SH 1/3	
TOLERANCES: .XX = .XXX = ANGULAR DO NOT SCALE DWG					
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401.831.3831 fax 401.454.0183					



ttools, LLC	DRAWN TBH	DATE 9-14-00	TITLE ALTERNATE ANGLES OF VIEW		
	DIMENSIONS ARE IN: INCH				
	SCALE 1:1		DRAWING NUMBER TT-EX-PS.1	REV 1	SH 2/3
TOLERANCES: .XX = .XXX = ANGULAR					
DO NOT SCALE DWG.					
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401-831-3831 fax 401-454-0183					

**NOTES:**

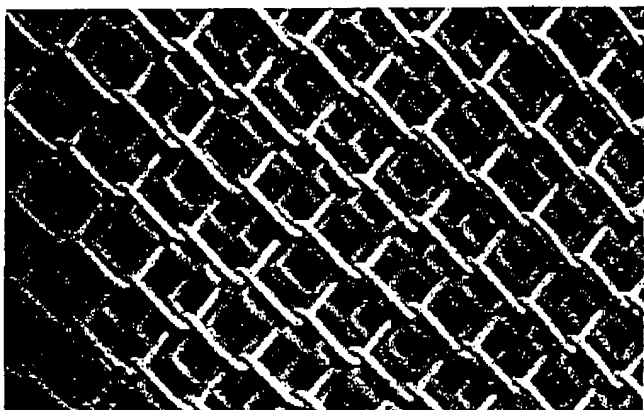
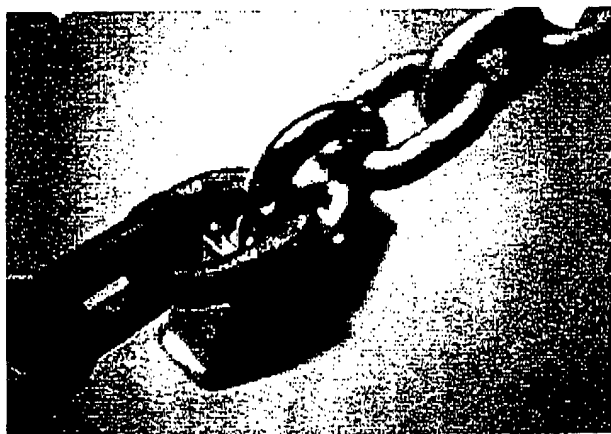
- 1) FILM SIZE IS 2.25" X 3;
- 2) HOLOGRAM AREA IS 2.125" X 2.2" CENTERED RIGHT TO LEFT AND JUSTIFIED TO THE TOP OF THE 3" LENGTH

ttools, LLC	DRAWN TBH	DATE 9.14.00	TITLE IMAGE AREA		
	DIMENSIONS ARE IN: INCH				
	TOLERANCES: .XX = .XXX = ANGULAR DO NOT SCALE DWG.	SCALE 1:1	DRAWING NUMBER TT-EX-PS.1	REV 1	SH 3/3
ttools, LLC 686 Angell Street Providence, Rhode Island 02906 phone 401-831-3831 fax 401-454-0183					

Thursday, October 19, 2000

JPEG image 278x183 pixels

Page:1



Serial No. 10/029,447

PATENT
ART UNIT 2872
Serial No: 10/029,447

EXHIBIT 2

ESTABLISHED 1857

BARLOW, JOSEPHS & HOLMES, LTD.

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OF COUNSEL:
HERBERT B. BARLOW, JR.

October 24, 2000

Via UPS No. 1Z655AV82110000001

Terry Kramer, Esq.
Crystal Plaza One
2001 Jefferson Davis Highway
11th Floor, Suite 1101
Arlington, VA 22202

Re: Patentability Search
PRIVACY SCREEN FOR PDA OR LAPTOP

Dear Terry:

Please conduct a preliminary patentability search in connection with the above-identified subject matter. A complete disclosure of the invention is enclosed for your review along with a sample of an ordinary hologram. The client has already located the following patents:

3,972,593
4,082,433
5,254,388

Please provide copies of these patents with your results.

The invention is the use of a flexible, clear hologram overlay so that someone looking at the PDA from an angle, i.e. a person sitting next to you on a plane, would not be able to view the information in the display, but yet you could see the information when viewing from a direct perpendicular position. A key to the invention is constructing the hologram by shooting the image at an angle to the surface of the hologram so that the image is now visible from the side angles. In an ordinary hologram, the image is shot perpendicular so that it is visible directly in the line of sight. Both the product and method of manufacture are of interest.

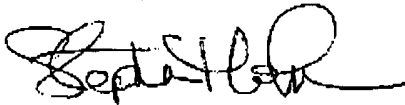
Please limit the cost of this search to approximately \$500 including database charges and the cost of patent copies.

A turn around of 2-3 weeks would be greatly appreciated.

Terry Kramer, Esq.
October 24, 2000
Page 2

If you should have any questions, please do not hesitate to call me.

Sincerely,
BARLOW, JOSEPHS & HOLMES



Stephen J. Holmes
SJH/jnv
Enclosures

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